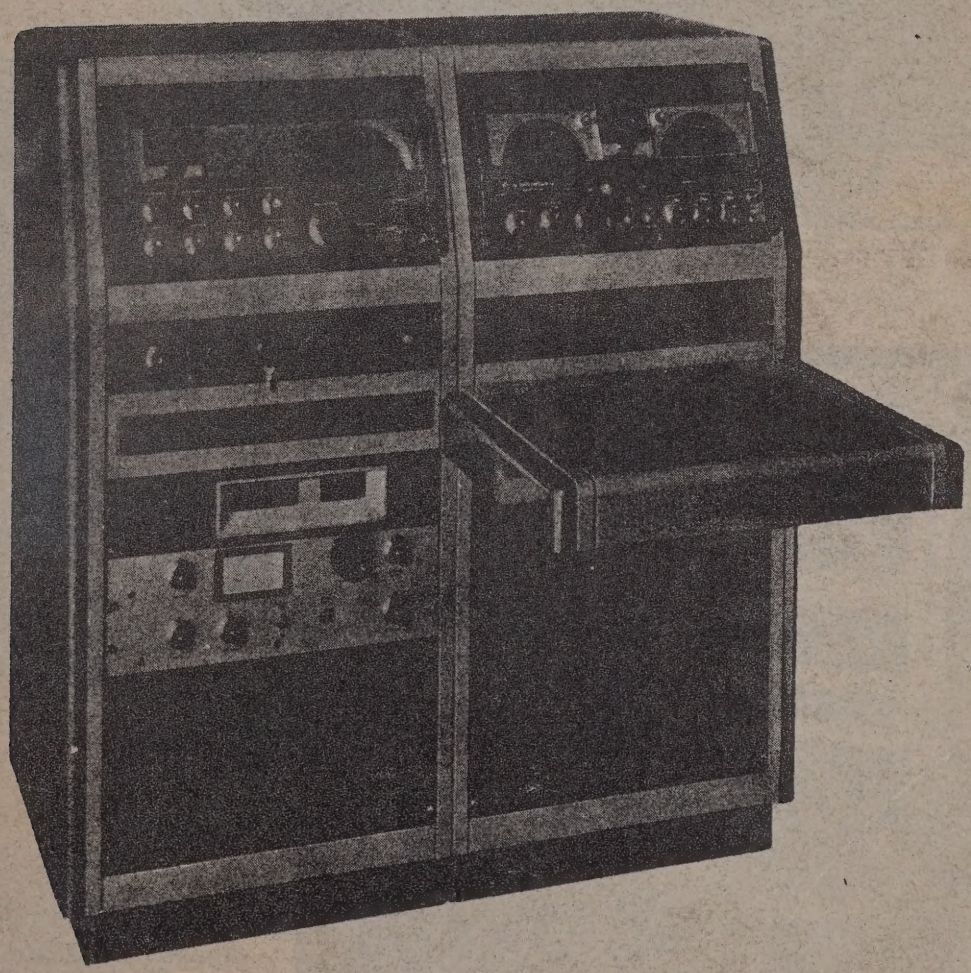
BC 1335-A

West Coast Ham Ads

Vol. 3 No. 4 | El Monte, California | June 1956

hallicrafters

MODEL SR-500



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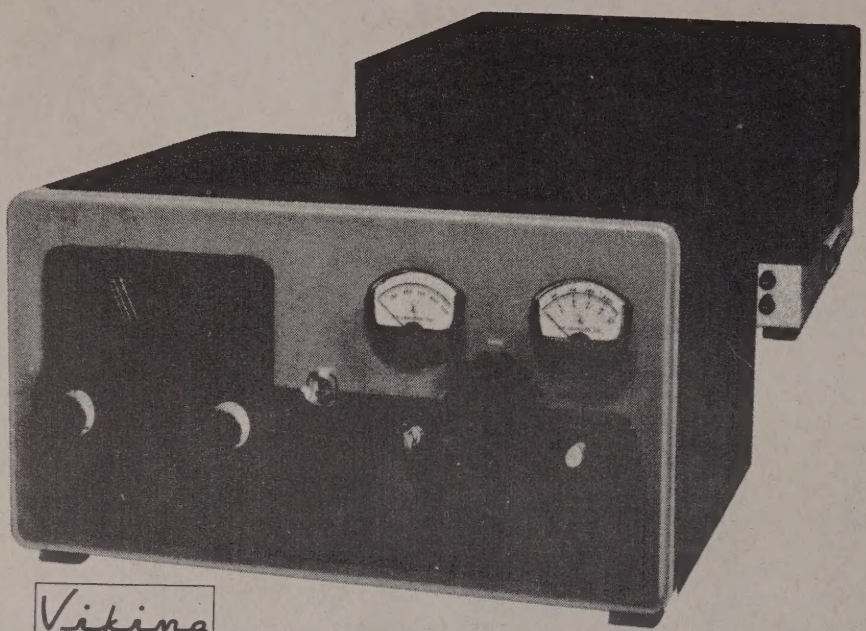

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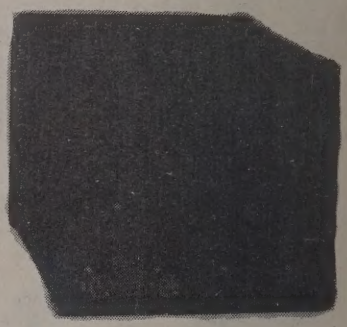
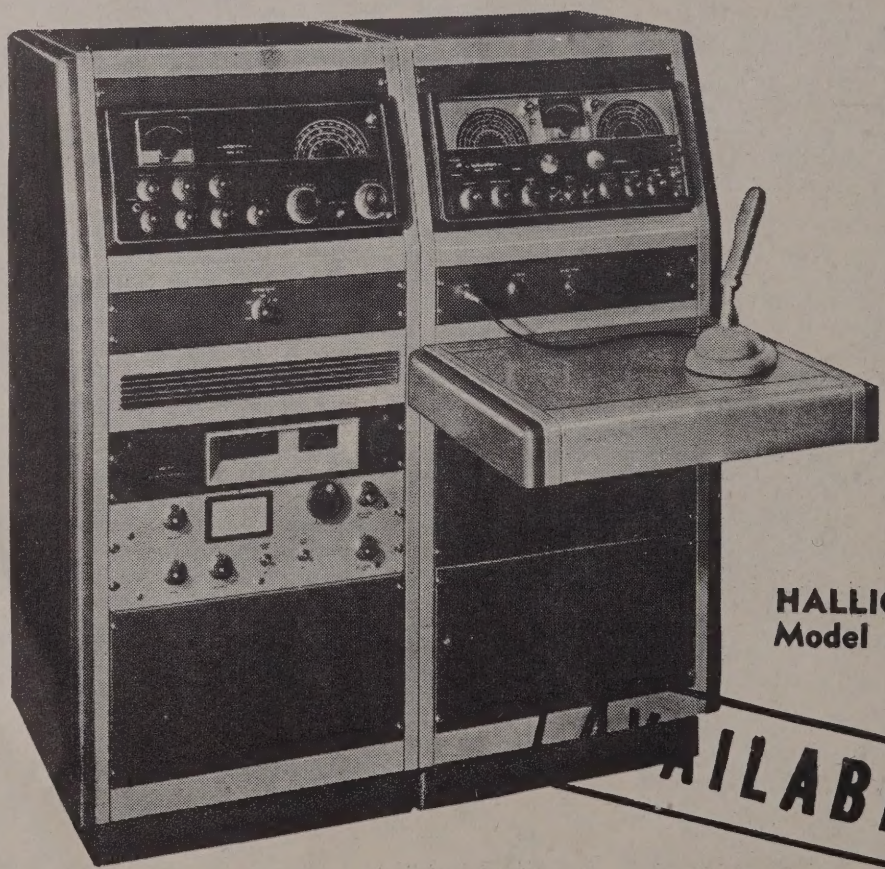


KE-93



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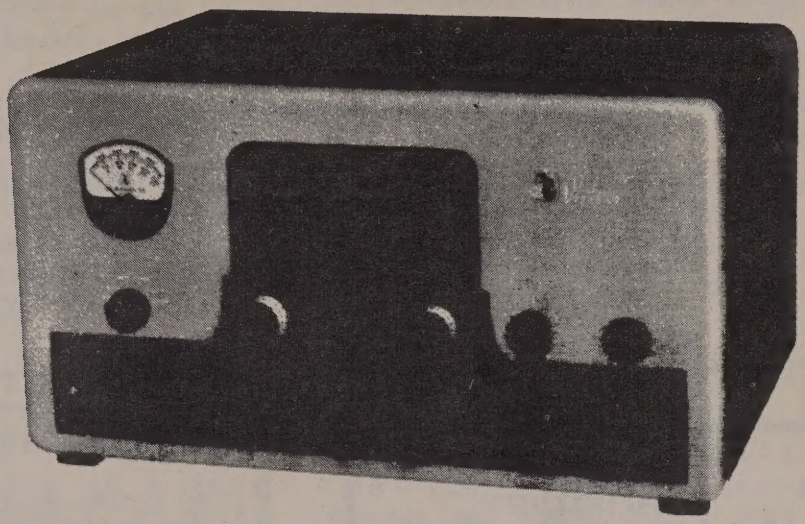

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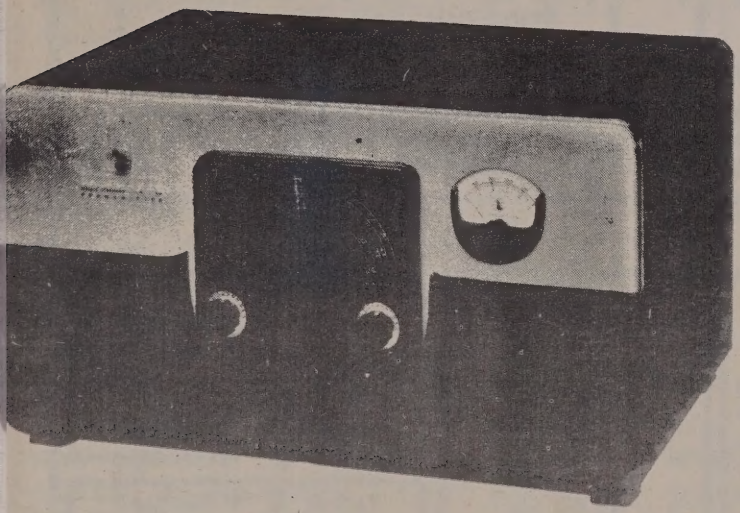
Valiant



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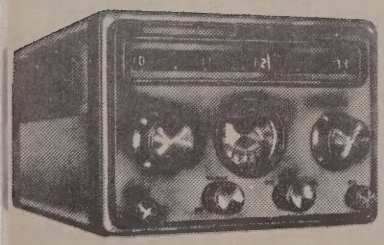
Pacemaker



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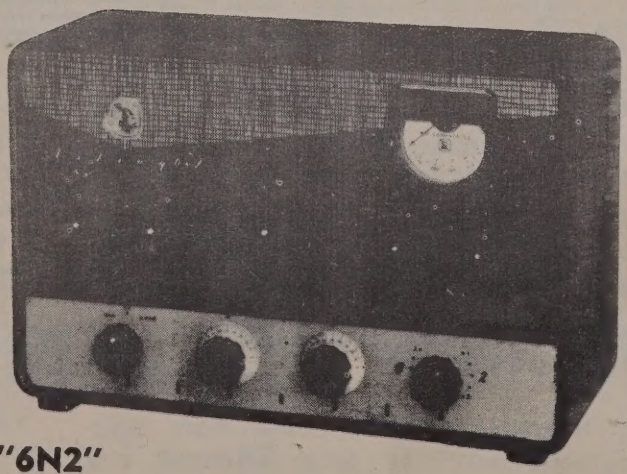

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Loupin The Loop

FLASH!...2 meters has done it again. News from W6MMU sez there was a band opening on the 6th of June to Texas, NLZ working at 144.020 (plus or minus 20 cycles) Mc and receiving a S8 sig report. The fella in Texas was on 6, a cross band contact. 18 minutes was all it lasted. Also, UID has heard W7LEE quite consistantly here as of late, and reports hearing W7K in Phoenix calling W7JU. Del told me he had heard a W5 testing on the low end of the band too, but was unable to copy the call (My CW isn't too gud either). MMU also reports that BUT in Taft made the grade on 420 Mc with BYE in San Diego. This is a fair to middlin distance of this "untried" band. Untried because of the lack of interest of the present ham in the experimental line of Amateur Radio. There are a few of them left I'll admit, but the breed is a vanishing one. The technician license that was supposed to put new life into the vein started out real good, then took a nose dive when the 6 meter band was opened to holders of this class of license. enuf said.. Ed Tilton, VHF Editor for the ARRL and QST will be the guest of the 2 Meter and Down Club on the 29th of June. The meeting place will be the same as the regular meeting and can be found on the inside back page of this issue. Please find new Loupin Quiz elsewhere in this issue. As usual, Nate of Columbia Electronics will have a nice prize for the winner..KKW called the house the other night to tell me of the fine Picnic the HUGHES RC had at Buenna Park. Told Virg that that was a heck of a time to let us know about the thing. Maybe they kept it a secret because of all the loot that was given away. He said that everyone there went home with a prize..Speaking of picnics, the RAMONA RC is holding their annual one on the 29th of July. Over a hundred prizes are 'on the table' with the traditional preregistration prize being a big one. More details next month. Oh yeah, the outlay is one and ¼ bucks..Speaking of picnics, the 2 METER and DOWN fracus is coming up in August, the TRI-COUNTY Hamfest is along in here too (Send me some dope Hillis), and I imagine many many more. We will be glad to give any plugs herein for your doin's, but I have to have a QSL to get the right poop, OM... Roger Wixon W6FDJ, East Bay SCM was in the SoCal area for about a week or so..If you are planning a trip thru Canada this summer, arrangements have been made by the U.S. and Controller of Telecommunications, Dept of Transportation, Ottawa, Canada, from whom applications can be obtained..Just heard W6CV on the 246 Net, long time no hear Brook..K6OEE operating /6 on the VHF FD June 9th and 10th. W6VIX, K6LJQ and W6ORS headed toward Santa Barbara to establish a record on some of the Very High Freqs. W6IFE and W6IHK toward San Diego to be the other end of the contacts, and the other end of the new distance records set on 3300mc and 1200mc respec-

Continued on page 32

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THE SURPLUS CORNER

by
Donald L. Stoner W6TNS
ELECTRONIC PUBLICATIONS

A TEN METER TRANSCEIVER FOR CIVIL DEFENSE

THIS months feature item is a real "gasser", as the saying goes. Several years ago, while back East, I obtained one of these transceivers and used the unit for many months on the 10 meter band, with very terrific results. I never saw another until the other day when I was stumbling around J.J. Glass's warehouse and almost knocked over a skid of them.

Before I get in a sweat, I better tell you that the name of this transceiver is a BC-1335/A. It is a self contained 20 tube battery operated transceiver that was used in command cars, half tracks and lighter tanks. It is about one of the most compact pieces of surplus gear I have ever seen, and very well constructed. This novel transceiver operates over a frequency range of 27.0 to 39.0 megacycles and the mode of transmission is F.M. As if this were not enough to make it a good buy, get a load of this. It operates on both 6 and 12 volts with no conversion necessary! In addition, there is provision for switching in a dry cell battery pack for portable operation. Although the transmitter and the receiver are crystal controlled, the BC-1335/A can be operated on any two frequencies between 28.5 and 29.7 megacycles. One channel could be set up for the local C-D frequency and the other could be used for rag chews.

The schematic (which is pasted on the lid of the BC-1335/A) may require some explanation. The final tank coil is also the grid coil for the 1st r-f amplifier, a 1L4 (V6). This is followed by the 2nd r-f, also a 1L4 (V7) and a 1R5 mixer (V8). The i-f amplifier consists of V9, V10, and V11, all 1L4 tubes. The i-f frequency is 4 megacycles. The i-f drives a 1A3 (V12) and ½ of a 3A5 (V13) as an FM discriminator. The discriminator output drives the other half of V13 as an audio tube.

The transmitter oscillator (V4) is on a frequency of 14 mc. for 28 megacycle output. Although there is no crystal in this circuit, the transmitter is crystal controlled! More about this later. For FM, a reactance modulator, a 3Q4 (V5) is powered by a carbon microphone plugged into J3-A. The 14 megacycle output drives a doubler (V3, 3A5) which in turn drives the final amplifier. One word about this final amplifier. It is not in the "walkie talkie" class. At 15 ma. per section, the two 3A5's (V1 and 2) run 9 watts input and we measured 5.6 watts output, not bad for a portable rig. The output will light up 3 parallel #47 pilots to beyond full brightness! In addition to modulating the transmitter, the reactance tube also controls its frequency. The transmitter, which has been aligned according to the instructions on the lid of 1335, is ener-

Continued on page 30

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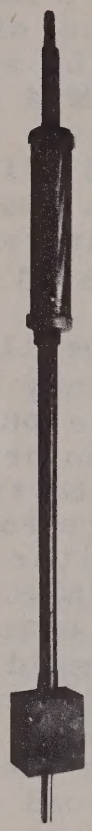

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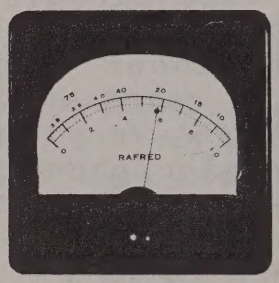

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For maximum sensitivity of your mobile receiver the antenna used should be tuned or resonate to the band on which you are listening. This flexibility or feature of the AUTENNA permits the operator to scan the various Amateur frequencies without leaving the operating position, thereby enableing him to get the best possible performance from his receiving equipment and also permit him to switch the antenna back to the frequency to which his transmitter has been previously set, and have the antenna resonate at the transmitter frequency without any further adjustment of the antenna.

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WHAT'S NEW THIS MONTH
by W6RRI
Bill Thompson

There is some red hot news for the mobile operator this month, and the gear will be ready in the near future, so watch for it at all the ham outlets.. This is something that has been needed for a long time and as far as I know this is the first one to be brought out..

It is a mobile antenna, center loaded, that may be tuned while in motion from inside the car! It will give complete coverage of 75, 40, 20, 15, and 10 meters. This includes the provision for tuning up on any frequency on the 75 meter band. It comes complete with all fittings so that it may be removed or installed in seconds, (put it in the trunk or back seat when left out), and since no part is over six feet in length it will fit in the back seat.. I was shown the model that had been in use for about a year and the, "positive noise free contacts", were still positive and noise free. The antenna is designed for transmitters with a pinet final and will handle power up to 100 watts..

All in all it looks like a good bet to me for the modern mobiler, and the price is very good at $69.95.

NEW FROM JOHNSON!

There are several new things that have been announced by the E. F. Johnson Co., The first was the Pacemaker that I told you about a month or two ago, now they have three more that look very good to me.

The first is the "VALIANT", which is a big Ranger that runs a cool 200 watts of AM phone, 275 watts on CW & SSB, (with a separate exciter for SSB), with all the features of the Ranger inc: 160 thru 10 meters and an internal VFO. The rig is fully TVI'ed and has many new features including, timed sequence keying and a low pass-audio system that restricts the audio range to 3500 CPS, thus providing maximum communication effectiveness with minimum band-width.

If the Valiant is not enough power for you they have one that should do the trick, this is called the "FIVE HUNDRED". This rig will run 500 watts of AM phone on all bands inc., 80, 40, 20, 15, 11, and 10. In addition it will run 600 watts on CW and 500 watts of SSB with an exciter. This rig is also completely TVI'ed including double "L" section filters in every lead and as complete shielding as is possible. The power supplies are in a separate cabinet along with the modulator tubes and transformer, this makes the transmitter proper a small table top rig that measures only 11 5/8 x 21 1/8 x 17 3/8.

All the operating controls are on the front panel of the RF unit, you do not have to get at the power supply for operation. For the operator that wants to be heard and get thru if it can be done this looks like a good bet to me. The pocket book isn't strained too hard as the price of the VALIANT is only $349.50, and the FIVE HUNDRED is $649.50.

For the high frequency opps they have a new rig that gives complete coverage of the two and six meter bands.

Continued on page 28

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1A7GT.....70	6F5.....85	12SN7GT...80
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5R4GT.....90	6SH7.....50	832.....3.50
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5Y3GT.....45	6SN7GT....85	838.....1.00
6A8GT.....85	6Y6G.....90	865.....50
6AC7.....85	7C7.....75	872A....1.35
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6AG7....1.00	7Z4.....60	4X150A.22.50
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6AQ6.....70	12AX4GT...75	956.....40
6AT6.....50	12BY7A..1.10	957.....40
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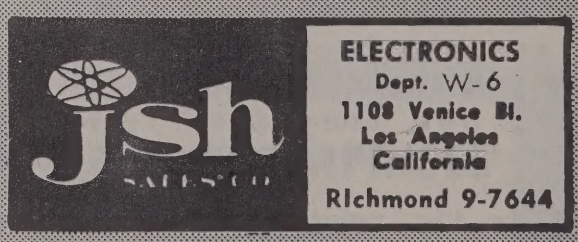

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A NOTABLE among the MANY VARIOUS HAMS

by K6MVH

This is to serve as the first of a series of articles on individuals who are noteworthy in the field of Amateur Radio for one reason or another. For the most part, amateurs listed in this column from time to time will be "six-meter" men, although no doubt exceptions will be made.

This first column is appropriate for the author's benefit, as will be seen later, though I can think of no better man to qualify, at the present, than K6MQB, Ken, of Southwest Los Angeles.

For a long time Ken complained about the Technician's band, six meters; it seems there was never anyone around to answer any of his "midnight CQ's". Ken's first few months on six meters discouraged him considerably. He couldn't seem to manage to get a signal out of his back yard. He changed antennas regularly, doublets to dipoles, and even off-resonant groundplanes. Eventually, he erected a beam, and he was able to snag a few of the rare ones, like K6GXT, in Hawthorne, not two miles away, or W6KCZ, who lived about three houses down from the corner. Ken pined for some real DX. So great, in fact, was his yen for distance, that he found himself purchasing a new SX 96 receiver. He began to spend all of his off-hours listening to the "Generals" hamming it up in the various corners of the globe (this fascinated him), while his Communicator sat idle on the operating desk. In one of his more extravagant reverees, Ken sent off to Benton Harbor, Michigan, for a DX 100, apparently forgetting temporarily that its tempting bands were the "fruit of all Evil" for a technician.

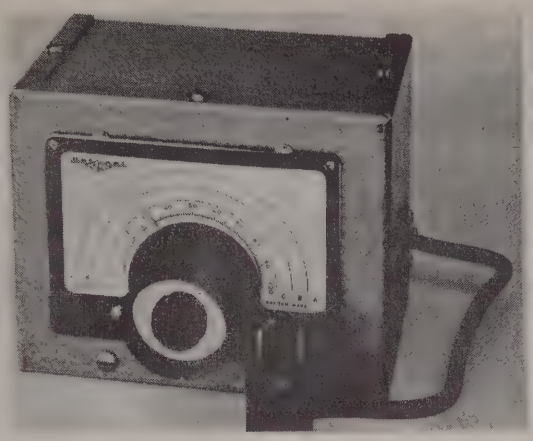
Becoming cognizant of the fact that he legally could not so much as heat up the filaments in his new rig until certain government obligations were fulfilled, Ken began to study the Morse Code diligently. He even took a night-school course in electronic theory. He simply HAD to have that General ticket.

Night after night, Ken burned the midnight oil, while the rest of the community slept soundly. Finally, he graduated from school, and found himself copying close to 18 words per minute in code. Deciding that the day had come for Victory, Ken took a day off work, and went downtown to take his General Class Examination. He passed the test with flying colors, and it wasn't long until the treasured ticket arrived.

Here comes the curve: Ken has an unused DX 100 and an SX 96 that is collecting dust. He can be found during any of his off-duty hours, leaning back casually in a comfy chair, yakking contentedly into his "Green-eyed Monster". None of his friends could quite get the picture, and frequently an acquaintance will query Ken as to the reason the DX 100 lies unused.

"Why should I want to talk to a total stranger in a foreign land whom I would probably never see?" He calmly asks.

Continued page 26



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Above picture is 1 KW plus commercial built Temco, 10 thru 80 meters, no TVI. Beautiful finish cabinet. All complete. Exciter-VFO in one case. Excellent for SSB. Pwr supply (2900V 750Ma). Cost $2,000. Sacrifice for $695. Will take trade commercial rig & rcvr for XYL. K6DAC ELiott 9-3866 eves.

A CLICKLESS AND CHIRPLESS DX-100 W6GMC STYLE

By M. C. Smith W6GMC

There are perhaps more KW stations per ham population in Southern Calif. than any other part of the country. Hence, any of these stations with key transients in their exciters or finals would cause an intolerable situation on any band where any large number were in operation. When key transients are in the exciter, the transient not only appears on the air, but it appears in a magnified form due to being amplified. There are many ways of keying a KW but this writer wholeheatedly subscribes to excitation keying as being the simplest and most economical method. Since the keying is applied to the grid in the form of stopping and starting the rf at the grid, any thumps, clicks or chirps, will appear in an amplified condition. I was slipped the word that I had clicks before the FCC became interested and correspondence with others gave no indication of any relief of the situation. Mainly other DX 100 users just said in effect "if you find out or come up with anything, let me know" and so the slogan which is popular these days became a reality. The slogan is "Do it yourself" and appears on many kits of all sorts not just in the radio line.

As you have guessed, I use a DX 100 as exciter. It uses cathode keying in both the VFO and XTL-BFR stage. This is shown in a simplified ckt. in Fig. 1. After reading several articles on keying in both CQ and QST the article by Puckett in QST for Sept. 1953 page 20 seemed to be the

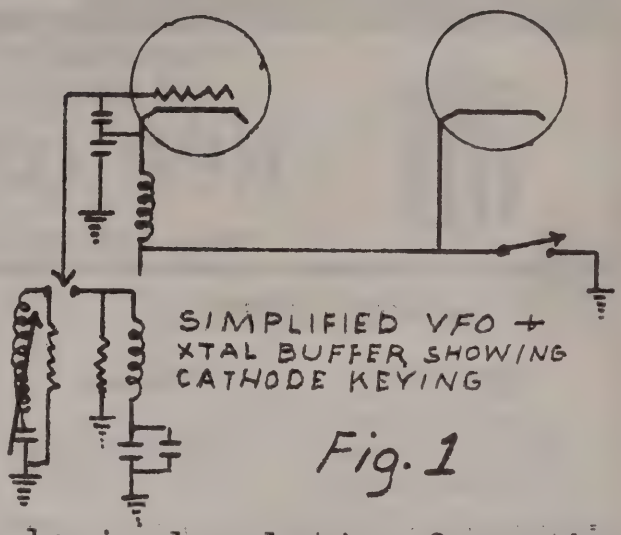

Fig. 1

logical solution from the standpoint of simplicity and a minimum amount of modification to the DX 100. It seemed to be relatively inexpensive and in theory should be very effective. This circuit is given in Fig. 2.

A little study of Fig. 1 and Fig. 2 will show that by changing only a few wires and inserting a VFO stopping arrangement, the keying can be accomplished in the VFO and XTL-BFR stage. Accordingly, a keyer unit was built and the DX 100 modified with a mike three ckt jack in place of the key jack originally used, one resistor placed in the VFO compartment and a small amount of wiring change there, a .005 disc ceramic condenser added on the 12BY7 stage from cathode to ground at the socket plus a small wiring change in its cathode circuit and the set functioned like a charm. Tests with another ham 10 miles away showed the correct shaping condenser value. Reading of the article in QST Sept. 1953 will give complete instructions for adjustment of the keyer and the theory of its

Continued on page 24

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Crystal tape recording type
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2K-52 Magnetic 2K ohm imp.
@ 1000 cps **$2.95**
Crystal Hi imp. **$1:65**
complete w/cord & closed circuit jack

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VHF

by K6MVH

Around the six meter band, there has been heard a widely discussed rumor to the effect that the Technician has been granted use of the 11 meter band. From listening to the various conversations over the air, the following conclusions were drawn by this writer:

1. The 11 meter amateur band will be forfeited by the amateurs if it is not utilized by them within a reasonable length of time.

2. A Manufacturer of VHF radio gear, hearing of Conclusion #1, sent a representative to Washington to request that Technician Class amateurs be given the right to this band, knowing that should such a move be made, this manufacturer stood to make a veritable fortune from all the 11 meter transceivers they would begin to produce.

3. The FCC has approved this appeal, and it is legal for Technicians to operate on 11 meters.

Of course, from what is inferred above, one can readily see the controversies that have been arising on the six-meter portion of the spectrum. Like all rumors, these no doubt started small, and gradually increased in expanse to the above proportions. We are not doubting the validity of SOME of the insinuations made, as we have no way of checking their accuracy, but the third conclusion was a cinch to disprove.

Realizing the trouble an innocent and well-meaning Technician might get himself into, I took the trouble to contact the FCC, in hopes that they might verify some of the statements. The FCC representative said, in effect, the Technician Class Licensees are permitted to operate no lower in frequency than 54 megacycles....most certainly not on the 11 meter band. But to console the Technicians who might have been counting rather heavily on the move, the FCC spokesman also hinted that there was a remote possibility of a similar change in the not-to-distant future.

From all that I can gather, it is apparently true that a manufacturer has sent a rep to Washington, but again, all we can go by is heresay, and that can most assuredly be deceiving at times.

* * * * *

It is not our desire to be hypercritical of the high quality QSO's that take place on six meters, so we will graciously present the following without comment: (Sound familiar)?

"CQ, CQ, CQ, CQ, HERE IS K6 XXX CALLING CQ CQ, CQ CQ CALLING CQ SIX AND CARE FULLY TUNING FOR A CALL."
"K6XXX, K6XXX, K6XXX. HERE IS K6ZZZ CALLING. K6ZZZ IN HAMVILLE, CALLING, AND SITTIN' BY. COPY THERE, OM?"
"K6ZZZ, HERE IS K6XXX RETURNING. WELL THANKS FER THE SHOUT THERE OLD MAN. DON'T BELIEVE WE'VE WORKED BEFORE. HANDLE HERE'S BILL. BAKER ITEM LOVE LOVE. RIG HERE'S HOMEBREW. WE'RE RUNNING UMPTEEN WATTS TO AN 811 BAKER FOR THE FINAL. USING A FOUR ELEMENT WIDE-SPACED HORIZONTAL BEAM WHICH IS TWENTY-TWO FEET, EIGHT and ONE QUARTER INCHES OFF THE GROUND. DX HERE TO DATE IS WASHINGTON COLORADO, SOUTH AMERICA, TENNESEE, AND LOWER SLOBBOVIA. WELL THAT'S THE RUNDOWN HERE, I GUESS, OM, SO BACK TO YA FER YER FINALS. 73's, AND WE'LL SEE YOU A LITTLE FURTHER ON DOWN THE ROAD."

Continued on page 20

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NEW HEATHKIT DX-100 wired, tested & calibrated $258.00 W6KWF, SYcamore 8-8106 Altadena, Calif.

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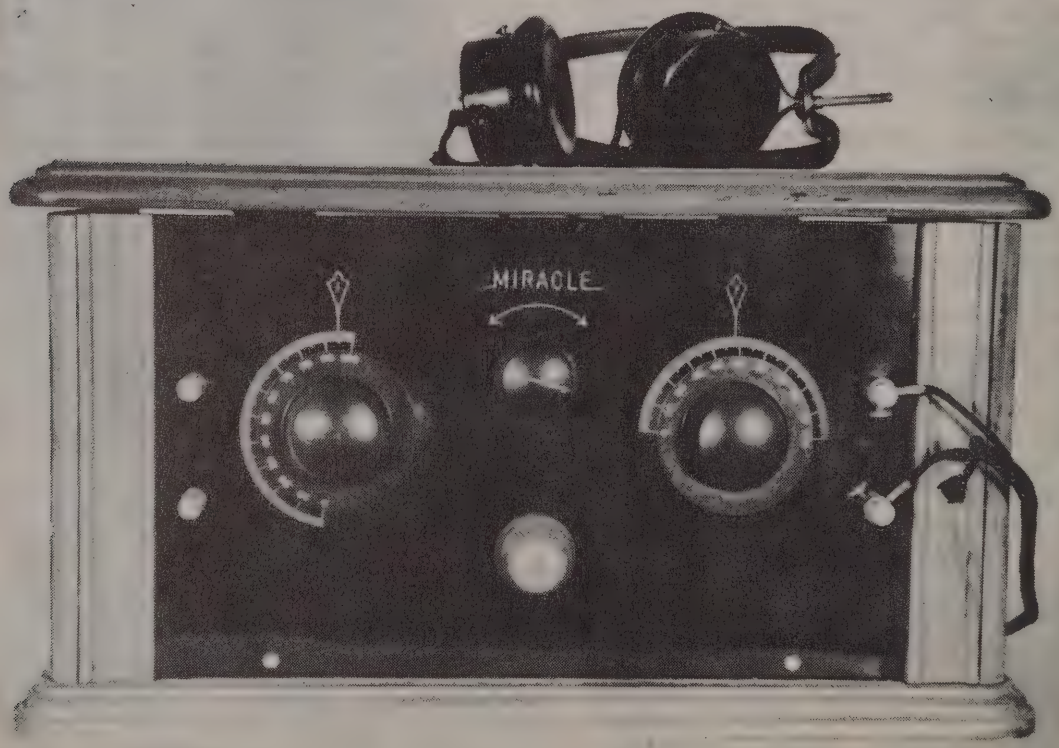

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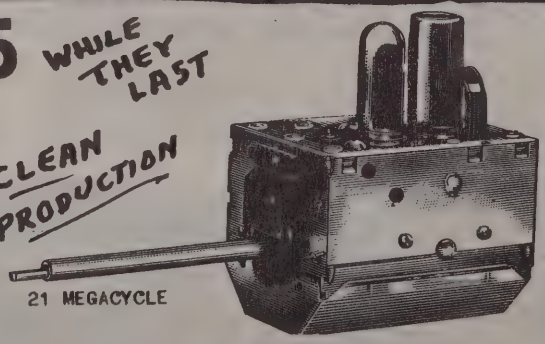

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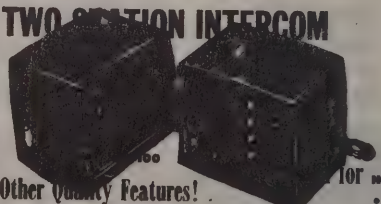

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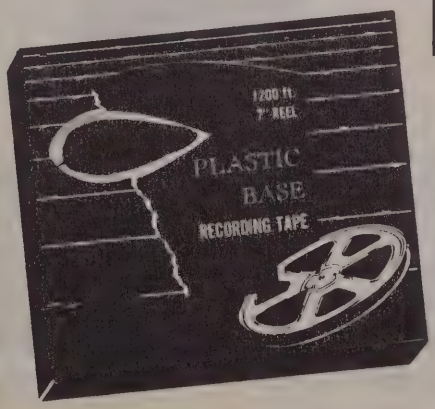

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VHF

Continued from page 15

The other fellow's return, you can wager, is very similar to the above soliloquy, the only major differences being in the height of the antenna, and the "DX to date". As far as I'm concerned, this borders on the ridiculous. One may as well record all his information on a tape recorder, then he'd never have to modulate the rig at all. I may be old fashioned, but what has happened to all the good old-fashioned rag-chews that were once so common? Where are all the round tables and informative QSO's? Oh, well, to each his own!

It seems to me that very frequently an amateur runs into a little trouble on a circuit design or some such project, and turns to the air for help. Occasionally the amateur will take the word of another ham for the solution to the problem, even if the other fellow knows less about the issue than the first. In VHF work, this can most certainly turn out to be catastrophical, especially when the ham in distress happens to be building a beam or some other component of relatively exact dimensions.

Now, if a ham who was having a little difficulty would write to me, I would publish his problem and the solution, for the benefit of all other hams who may have similar difficulties. If this writer cannot find the solution, the question would still be published, and one of the readers who feels capable could have the distinguished pleasure of solving it via the "Ham Ads". Any suggestions concerning this type of arrangement would be appreciated.

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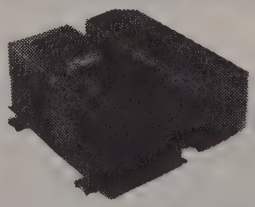

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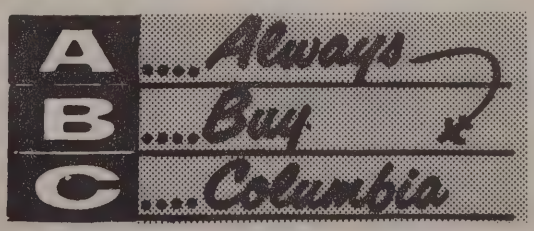

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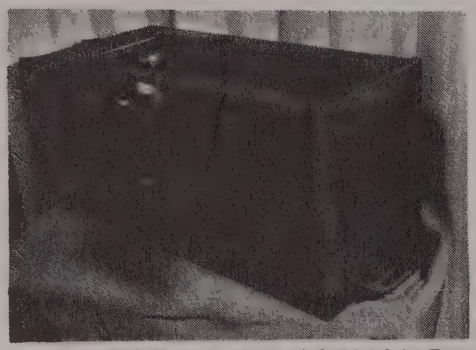

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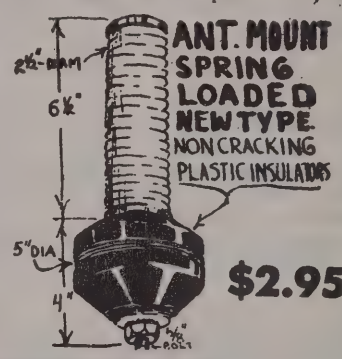

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A CLICKLESS AND CHIRPLESS DX-100

Continued from page 13

operation. It is extremely simple in adjustment. The result is absolutely clickless, chirpless keying on the air. this is a system of differential keying.

Fig. 3 gives the complete circuit of the keyer used at W6GMC along with the modified DX 100 VFO and XTL-BFR stages. Only simplified drawings are provided as only the circuitry shown is changed from the original.

In the VFO compartment the two grid resistors are taken off ground, connected together at that point and a 2200 ohm half watt resistor inserted in series to ground. This junction becomes the point where VFO stopping voltage is injected. This value of resistor was arrived at after trying several values. This is the optimum from the standpoint of allowing enough bias stopping voltage to build up and still allow adequate output from the VFO. Larger values cut down the VFO output too much. Also the VFO cathode is returned to ground direct through its cathode choke. The other change is in the 12BY7 stage. It includes adding a .005 disc ceram. condenser from cathode to ground at the socket. Its cathode return is then through the cw-phone switch and then through the modified key jack which is a mike jack of the 3 ckt variety.

In the revised operation the keyer is left attached at all times and for phone operation the key is left closed. TVI filters are inserted in the key leads as shown.

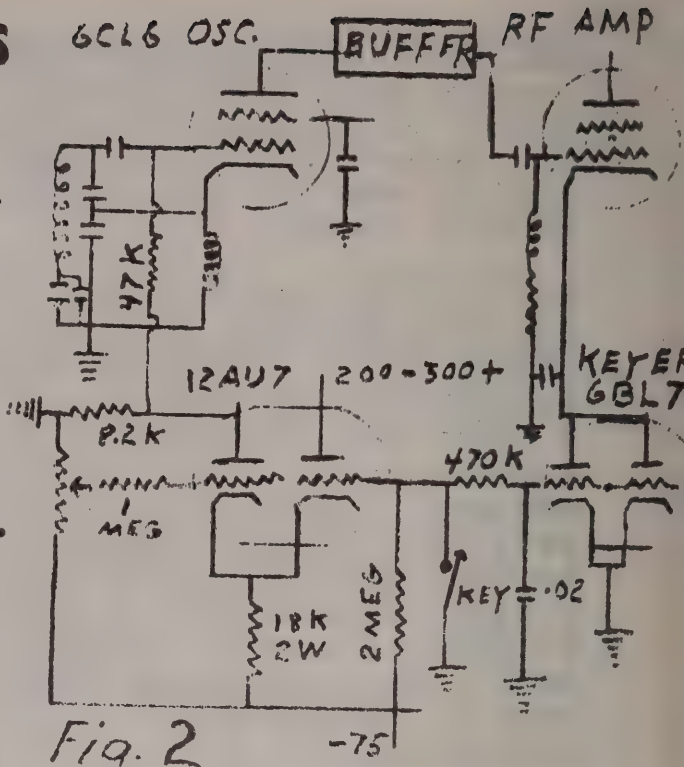


Fig. 2

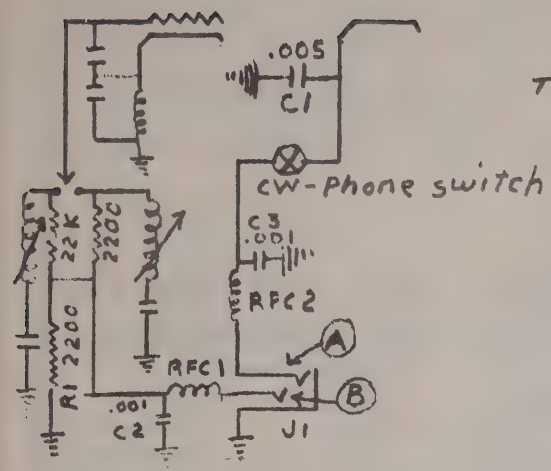
The keyer has its own power supply using the smallest receiver power transformer available. R4 is a slide tap 10 watt resistor adjusted to give 75 volts negative at the HV center tap connection. The potentiometer in the 6sn7 controls bias on the grid of the portion connected in the VFO compartment. This in turn controls the current through that section and hence sets the bias build up across R1 which stops the VFO on key up. An optimum setting is easily found where the VFO stops instants after the main carrier stops on key up and starts instants before the main carrier is keyed on key down and can be heard in a receiver used as monitor.

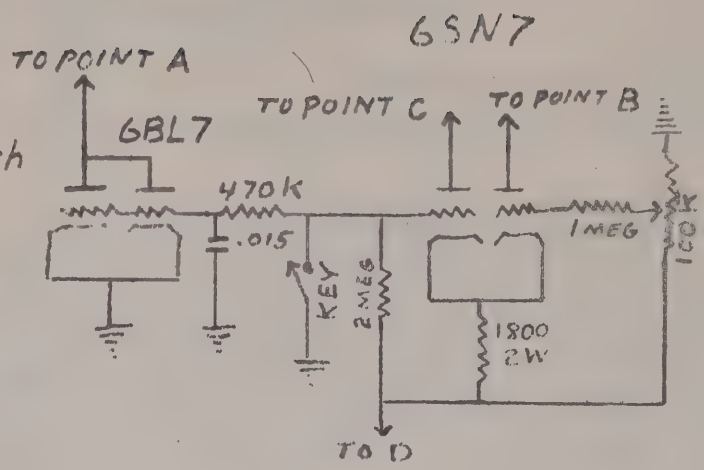
It took a minimum of changes to the DX 100, minimum of parts, minimum of time, and certainly didn't cost much. However, you get a maximum of enjoyment in knowing your keying is clean and you are not taking up several KC in keying transients.

This keyer works equally well on xtal operation.

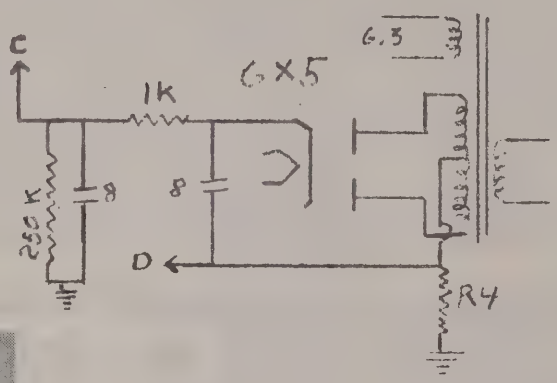
6AU6 12BY7

Fig. 3





R1 Added
C1 Added
J1 changed to a Mike JACK
C2, C3 DISC. CERAM
RFC1, 2 20T #22 ENAMEL 1/4" DIA.
R4 IN KEYER POWER SUPPLY ADJUSTED TO 75V NEG AT POINT D



Bill, W6VIX (A rabid VHF hound) and his 3300 Mc "Dish". Seen in background is the 24 element 2 meter beam. Note VERTICAL polarization.
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Continued from page 11

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-73-
Ken

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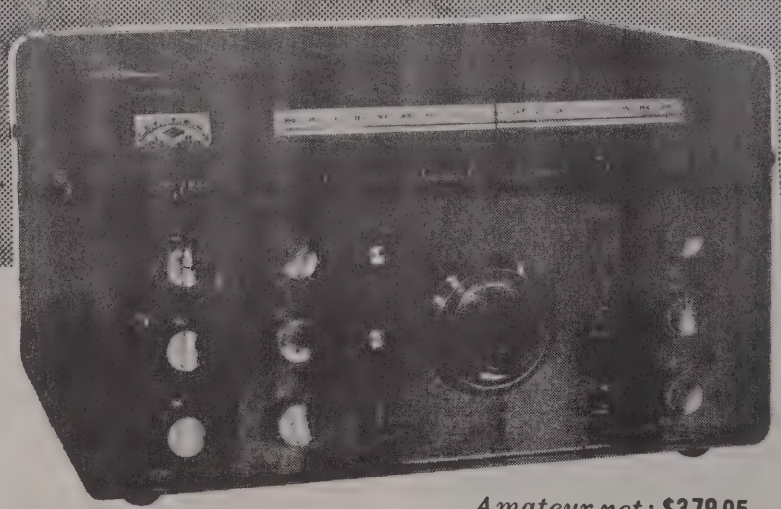

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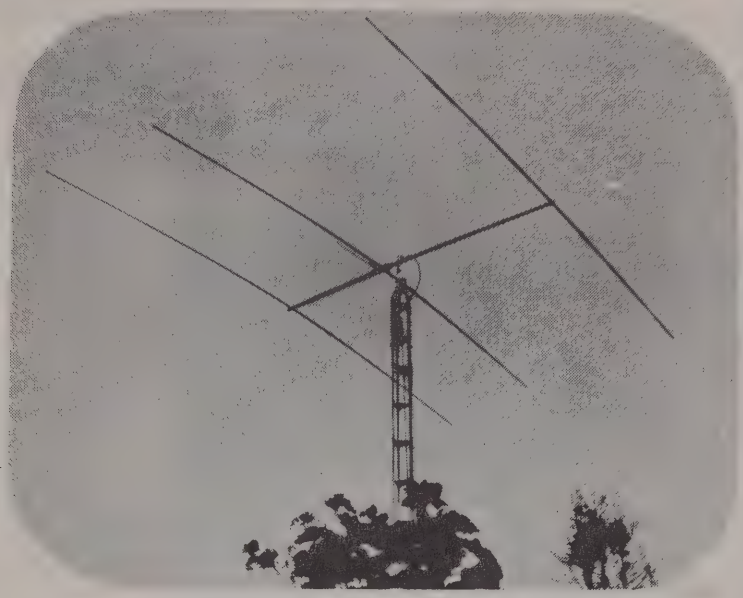

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Continued from page 9

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Not too much on this one yet but there will soon be a new rcvr. from HALLICRAFTERS, this looks as if it will be even better than the SX-100. The new job, SX-101 will be an amateur band rcvr only and will have everything in it but the kitchen sink, inc, a crystal calibrator. Watch for info on this one, the price will be about $395.00.

73's
Bill

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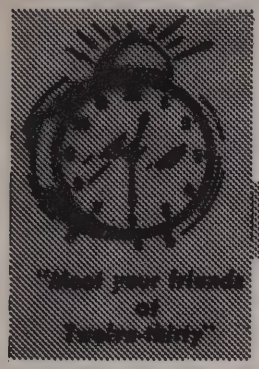

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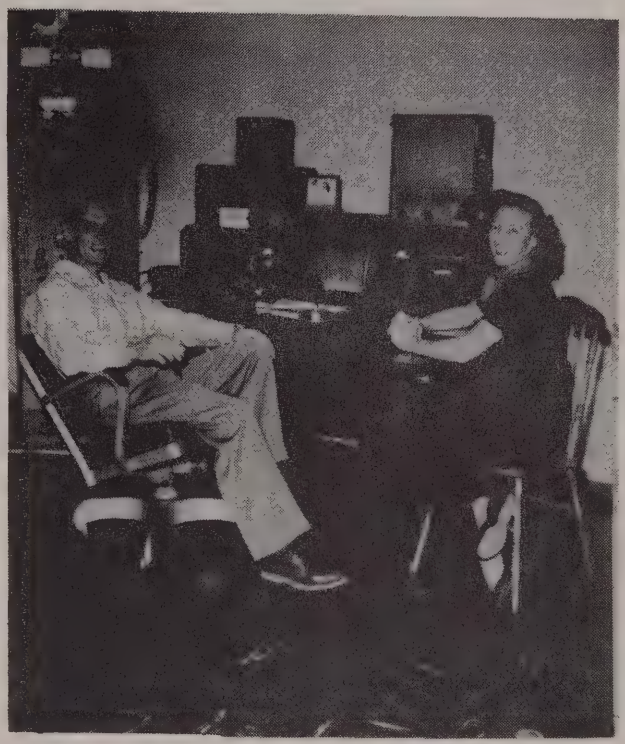

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A TEN METER TRANSCEIVER FOR CIVIL DEFENSE

Continued from page 7

gized as soon as the mic. button is pushed. The receiver stays on all the time. The plus-zero-minus voltage from the detector is fed to a d-c amplifier tube, which in turn controls the transmitter frequency via the reactance modulator. If the transmitter drifts higher in frequency, the discriminator produces a plus voltage that is amplified by the d-c amplifier and the reactance modulator returns the transmitter frequency to normal, the same applies if the transmitter drifts in the other direction.

There are three conversions that could apply to the BC-1335/A. First, you could use it stock, that is, connect it to the battery, tune it up and use it. Second, you could defeat the crystal control and tune the receiver and transmitter over a portion of the 10 meter band. A delux third conversion would be to change the rig over to AM. It would be quite a job and the author does not feel that the work warrants it. However, some tips on the conversion are given.

Conversion #1

You will note the various channel numbers on the tuning chart. If a decimal point is placed between second and third numbers, it will give the frequency of operation, ie. channel 287 is 28.7 megacycles. To compute what crystal to use for a given frequency, follow these simple steps. Subtract 4 from the desired frequency and divide the remainder by 4. As an example, let us say that you desire to operate 28.7 megacycles. 28.7 minus 4 equals 24.7 and by dividing this by four we get 6.175 or 6175 kilocycles. I have no doubts that you can find any crystal you need in Al's rock pile at J.J. Glass, so this doesn't pose any particular problem. He might even throw in the necessary quartz to get your rig going! The transmitter is aligned as per the instructions on the lid. It will be necessary to change the value of R10, a 330 ohm resistor to reduce the deviation to the legal limit. We wound up with a 2.2 K resistor in place of R10. Next, connect it to your car battery, connect ye olde aeriale, bolt it under your Dash and that's that.

Conversion #2

This conversion is equally as simple. The oscillator requires crystals between 6125 and 6425 kilocycles for 10 meters. The two doublers, V14 and V15 (1L4 and 3Q4) multiply this to 24.5 to 25.7 for oscillator injection. We connected the tank circuit shown in Figure 1 and plugged it in to the xtal socket. With it, we could receive any 300 kilocycles of the band without retuning the r-f coils. The same thing applies to resistor R10 as in conversion #1.

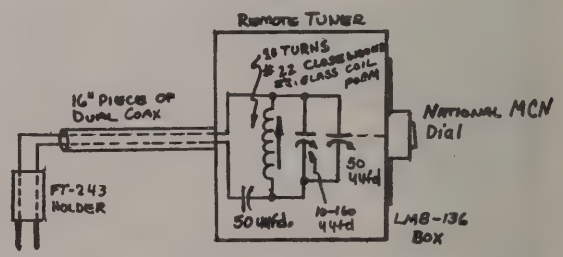
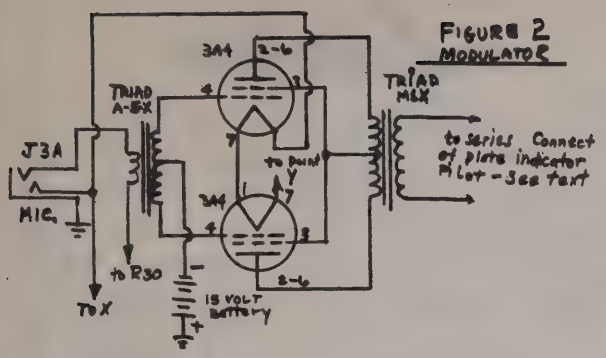


FIGURE 1.
CRYSTAL REPLACEMENT FOR CONVERSION #2

Conversion #3

This involves construction of an a-m modulator for the final amplifier. Figure 2 shows a suitable modulator



that has about 2.5 watts output. It is necessary to remove the spare tube rack to make room for the modulator components. The modulator out put is inserted by breaking the connection to the plate tuning indicator, a small pilot light and connecting the secondary of the modulator transformer in series with it. It is also necessary to short out the secondary of T1, the mic transformer. This will eliminate any hum pickup that might f-m the transmitter, but will not destroy the "crystal control" of the transmitter. The receiver will receive a-m by disconnecting the lead from pin 5 of the discriminator transformer (T5) from pin 3 of the 3A5 (V13). It will also be necessary to short out R22 and C42 so that V11 will not limit the AM modulation. It would be well to note that the stock receiver will pick up very nicely by tuning off to the side of the carrier.

The 1R5 tube that was not mentioned before (V16) is called a bias oscillator and it generates a negative bias voltage for the various tubes in the receiver. The "eye tube" (another "green eyed monstor") is used as an aid to tuning the transmitter.

Well, 73 es CU on 10

TNS

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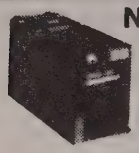

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2. What is a PHOTOHELIOGRAPH?
3. What is the name of the nearest bright star, 4 light years away?
4. In one second a ray of light could travel around the Earth's equator .....times.
5. What is the name of the comet that returns every 3.3 years?
6. How many prime numbers are there in the first 100?
7. What is the heaviest element in terms of specific gravity rather than atomin number?

Easy?--Try your luck and see
Corky W6ORS

Loupin

Continued from page 5

tively..Loupin answers from W6PHM, GXL, SOG and K6LWT es last months winner AMP, and guess Who? W6GXL won it with the most correct answers. Fine Business Bill, and if you will see Nate at Columbia Electronics, you too will find a nice prize awaiting you there. I'm sorry I forgot to list the QTH to send the answers to last time, but this one will have it I assure you.Hi..Answers were, 1- A marage is caused by a layer of cool air under a layer of warm..2- 4 parts.. 3- critical temp. of oxygen is -118.8° C..4- One atmosphere equals 33 ft. of depth. 5- Chief component of protoplasm is water.. 6- Long waves are anything below 550 KC..There it is this time, OM, and I hope you all find the Loupin Quiz interesting this time.

Best 'o 73
Corky W6ORS

STATIC

Several experimenters have had trouble with the TBY conversion due to oscillation of the final amplifier. Omitted from the conversion was the fact that that it is necessary to connect a trimmer capacitor from the plate of each 958 to the grid of the other 958. The 958's will neutralize at about 1.3 uufds. of capacity. Any small trimmer that will hit this capacity should be satisfactory. My apologies to all the hams that cut their throats trying to get this conversion to work.

W6TNS

FOR SALE: Viking II and VFO. Like new condition. Sacrifice for $275.00 FOrest 0-2147.

FOR SALE: 2 meter J antenna, body mount and spring $5.00 2 meter mobile coax antenna near new $10.00. Reason, got DC equipment. K6EF, George Sackman. 1033 S. Geranio, Alhambra. ATlantic 2-8136.

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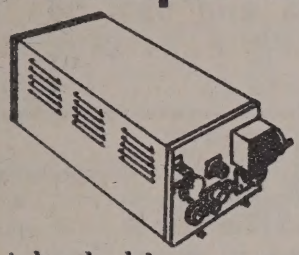

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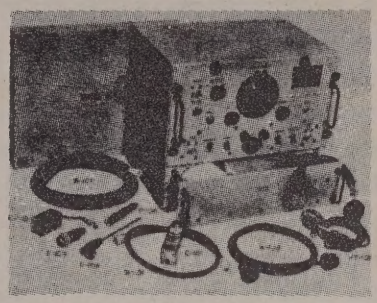
13 tube double conversion receiver, freq range 450-600 MC. This unit employs 446A lighthouse tubes in the RF section mixer, & oscillator circuits. First IF frequency of 55 MC has two stage of of amplification, second IF frequency of 16 MC has 4 stages of amplification Two video stages follow the second det. With schematic and tubes 8-6AC7, 3-446. 1-6AG6, 1-6H6. New condition **$9.95**



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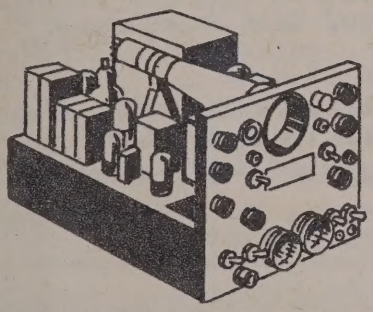

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Dow Trading Co.....29
Electronics Fabrication Co.....27
Electronics Publications.....23
Electronic Trading Post..... 4
Everett's Electronics.....20
G.L. Electronics Inc.....17
Harjo Sales Co.....22
Hiway Company.....16
Interstate Engineering Corp.....31
J.J. Glass Electronics.....6, 36
JSH Sales Co.....10
Papel Bros.....18, 19
P.A.R.T.S. Inc.....33
Paul Keys.....28
Radio Products Sales Co.....26
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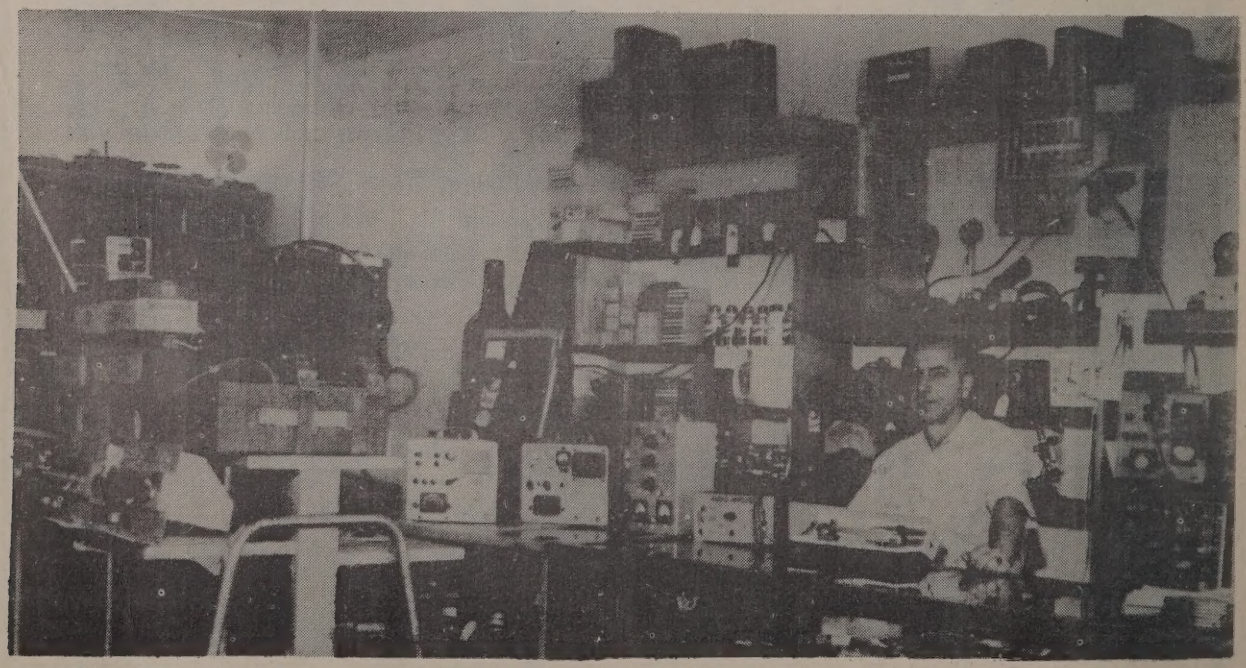

Jim Wood (Woody) K6BXW shown behind the counter in his newly opened Ham Store out at 6051 Vineland in North Hollywood. Photo by Max Gould K6GLG

Club Meetings

AEROJET RADIO CLUB K6CLZ meets 2nd Thurs. of each month. Contact K6HHO Len White. EDgewood 4-2611 for details.

ASSOCIATED RADIO AMATEURS of LONG BEACH meet first Friday ea month. Signal Hill City Hall, Hill & Cherry.

COACHELLA VALLEY AMATEUR RADIO CLUB meets last Tuesday ea. month at 45-680 Deglet Noor St., Indio, Calif.

CRESCENTA VALLEY RADIO CLUB meets second Tuesday of each month at La Canada Elementary School at 8 P.M.

DOWNEY AMATEUR RADIO CLUB meets 2nd. & 4th. Tues. 8 p.m. at the new Imperial School. Imperial Highway between Downey Ave. & Paramount Blvd.

FULLERTON AMATEUR RADIO CLUB Inc. W6ULI meets in American Legion Hall 2nd. Wed. of each month.

INGLEWOOD AMATEUR RADIO CLUB meets second and fourth Friday each month at 105 Grevillea Ave., Inglewood.

LAGUNA BEACH AMATEUR RADIO CLUB meets fourth Friday each month at City Hall, Laguna Beach.

MOUNTAIN VIEW AMATEUR RADIO CLUB meets first Thurs. ea month at the new Central School Cafetorium, 14741 E. Central Ave. Baldwin Park, 7:30 pm.

NORWALK RADIO CLUB meets 2nd. & 4th. Wed. at the Los Alisos Scholl Auditorium, Maidstone and Excelsior Dr.

ORANGE COUNTY RADIO CLUB meets third Wed. ea month at 12502 Placentia Ave. Santa Ana.

PACIFICO RADIO CLUB K6BAG meets every second Sunday ea month 9048 W. 18th St. LA. 1 pm. Open to teenagers in this area. Contact W6NJU.

PALISADES AMATEUR RADIO CLUB meets, 2nd & 4th Thurs. ea month at American Legion Hall 868 Swarthmore, Pacific Palisades.

RIO HONDO RADIO CLUB meets first Sat. of the month at Palm Park, Whittier.

RIVERSIDE COUNTY AMATEUR RADIO ASSN meets the 2nd Friday of ea month at 8 pm. Shamel Park Recreation Hall.

ROMONA RADIO CLUB meets 2nd Monday of ea month Fire House, 605 S. Del Mar San Gabriel.

SAN BERNARDINO MICROWAVE SOCIETY meets 1st Thurs. ea month at Chaffey College, Ontario.

SAN DIEGO AMATEUR RADIO CLUB meets 1st Monday ea month American Red Cross Bldg. 3650 5th. Ave., San Diego.

SAN GABRIEL VALLEY RADIO CLUB meets 1st Tues. ea month at Bowling Green Club House, Arcadia Park.

SAN FERNANDO VALLEY RADIO CLUB W6SD meets 1st & 3rd Friday ea month at Van Nuys Playground, 14301 Van Owen St. Van Nuys.

SOUTH EAST AMATEUR RADIO CLUB meets 2nd & 4th. Friday, 8 pm. at South Gate Civil Defense Bldg., Corner, Post & Victoria.

TRI COUNTY AMATEUR ASSOC. meets 2nd Wed. ea month at Westmont Community Center, Pomona.

TWO METER & DOWN RADIO CLUB meets 1st Wed. of ea month at Plummer Park, Long Hall, 7377 Santa monica Blvd., Los Angeles.

UNITED RADIO AMATEUR RADIO CLUB meets 3rd Friday ea month at Wilmington Hall 435 N. Neptune, Wilmington.

WESTCHESTER AMATEUR RADIO ASSOCIATION meets 1st & 3rd Mondays ea month at 83rd and Dunbarton in Westchester. Contact W6MTQ for details. ORchard 7-1012.

Y.L.R.L. meets second Saturday each month, 12:30, Schabers Cafeteria, 720 S. Hill St. LA. No meetings in July, August.

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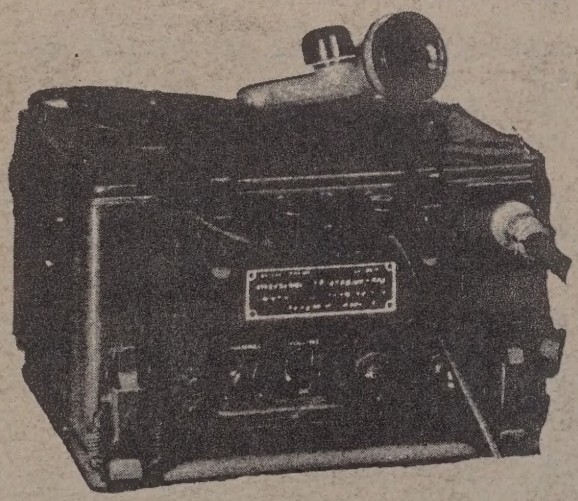

See this month's WCHA page 7 for complete details & conversion dope.

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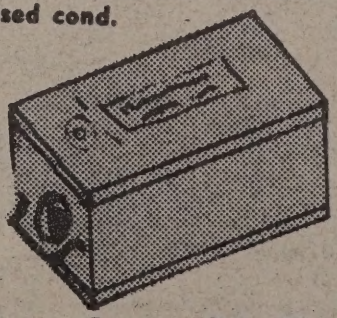

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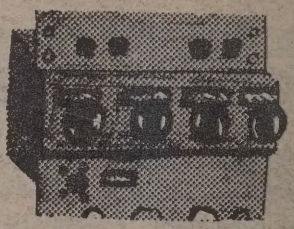

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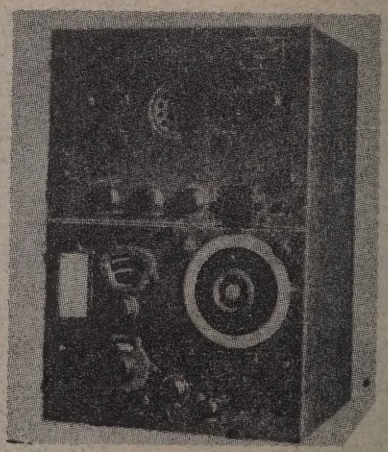

See March issue WCHA "Surplus Corner" page 7 for conversion to all band receiver.

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